

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

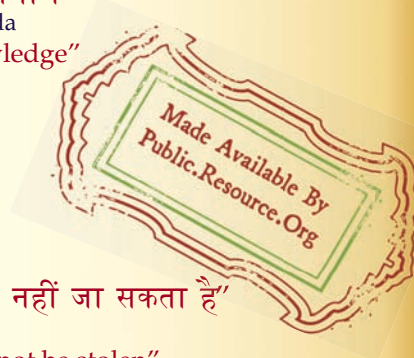
IS 2891 (1975): wooden handles for felling axes and hand axes [CED 9: Timber and Timber Stores]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



IS : 2891 - 1975

(Reaffirmed 2002)

Indian Standard
SPECIFICATION FOR
WOODEN HANDLES FOR
FELLING AXES AND HAND AXES
(*First Revision*)

UDC 621.968 : 674.75



© Copyright 1976

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

January 1976

Indian Standard

SPECIFICATION FOR WOODEN HANDLES FOR FELLING AXES AND HAND AXES (*First Revision*)

Timber Stores Sectional Committee, BDC 33

Chairman

DR A. N. NAYER

117/K/18-D, Sarvodaya Nagar, Kanpur

Members

SHRI S. K. CHANDA
SHRI S. N. DHIR
SHRI L. N. DOKANIA

Representing

Industrial Wood Works (P) Ltd, Calcutta
Ministry of Defence (DGO)
Plywood Manufacturers' Association of India,
Calcutta

SHRI G. L. KEDIA (<i>Alternate</i>) SHRI SATYA NARAIN GARG SHRI SURESH NARAIN GARG (<i>Alternate</i>) SMT S. GURUSWAMY SHRI M. L. JAIN SHRI P. K. JAIN (<i>Alternate</i>) SHRI P. V. MEHTA COL Y. P. MISRA SHRI NIRMAL SINGH (<i>Alternate</i>) LT-COL S. A. MOHILE SHRI B. B. MEHTA (<i>Alternate</i>) SHRI S. K. NAG SHRI A. C. SEKHAR OFFICER-IN-CHARGE, WOOD SEASONING BRANCH (<i>Alternate I</i>) OFFICER-IN-CHARGE, WOOD PRESERVATION BRANCH (<i>Alternate II</i>) SHRI SHARAN SINGH SHRI M. S. VAGH	Govind Narain & Bros, Kanpur Curzon & Co, Madras Jaynes Cheap Stores Supply Co, Delhi Directorate General of Technical Development Ministry of Defence (DGI) Ministry of Defence (R & D) Rekha Timber Co (P) Ltd, Calcutta Forest Research Institute & Colleges, Dehra Dun Directorate General of Supplies & Disposals South Indian Plywood Manufacturers' Association, Calicut Ministry of Railways (Railway Board) Director General, ISI (<i>Ex-officio Member</i>)
---	--

Secretary

SHRI J. R. MEHTA

Deputy Director (Civ Engg), ISI

© Copyright 1976

INDIAN STANDARDS INSTITUTION

This publication is protected under the *Indian Copyright Act* (XIV of 1957) and reproduction in whole or in part by any means except with written permission of the publisher shall be deemed to be an infringement of copyright under the said Act.

Indian Standard
SPECIFICATION FOR
WOODEN HANDLES FOR
FELLING AXES AND HAND AXES
(*First Revision*)

0. FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 23 October 1975, after the draft finalized by the Timber Stores Sectional Committee had been approved by the Civil Engineering Division Council.

0.2 The general requirements for wooden tool handles are covered by IS : 620-1975*. A series of standards have been prepared for various hand tools and for use with these hand tools a series of standards for the corresponding wooden handles are being prepared. This standard deals with the wooden handles for felling axes and hand axes conforming to IS : 703-1966†.

0.3 This standard was first published in 1964. In this revision besides permitting some tolerances on the length of handles, test requirements have also been included.

0.4 In the formulation of this standard, due weightage has been given to the International co-ordination among the standards and practices prevailing in different countries in addition to relating it to the practices in the field in this country.

0.5 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1960‡. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

*General requirements for wooden tool handles (*third revision*).

†Specification for axes (*revised*).

‡Rules for rounding off numerical values (*revised*)

1. SCOPE

1.1 This standard covers the requirements of wooden handles for the following four types of axes conforming to IS : 703-1966*.

- | | |
|------------------|--------------------------------------|
| a) Axe, hand; | c) Axe, felling, estate pattern; and |
| b) Axe, felling; | d) Axe, felling, trade pattern. |

2. TERMINOLOGY

2.1 For the purpose of this standard, the definitions given in IS : 620-1975† shall apply.

3. SPECIES OF TIMBER

3.1 Handles for Hand Axes — These shall be manufactured from any of the timber species specified for Class III handles in IS : 620-1975†.

3.2 Handles for Felling Axes — These shall be manufactured from any of the timber species specified for Class I handles in IS : 620-1975†.

3.3 Handles for Felling Axes, Estate and Trade Pattern — These shall be manufactured from any of the timber species specified for Class I handles in IS : 620-1975†.

4. REQUIREMENTS OF BLANKS

4.1 The blanks shall be well-seasoned to a moisture content not exceeding 15 percent and not less than 8 percent. The blanks shall be free from centre heart (pith), any kind of decay (rot), checks, shakes, splits (except hair splits), borer holes, warp and any other defect except those permitted in the finished handles in IS : 620-1975†.

4.2 The green blanks, if so desired, may also be given treatment as given in Appendix A to prevent cracking and splitting.

5. MANUFACTURE

5.1 The handles shall be manufactured from selected blanks prepared as above and shaped as shown in Fig. 1 to 3.

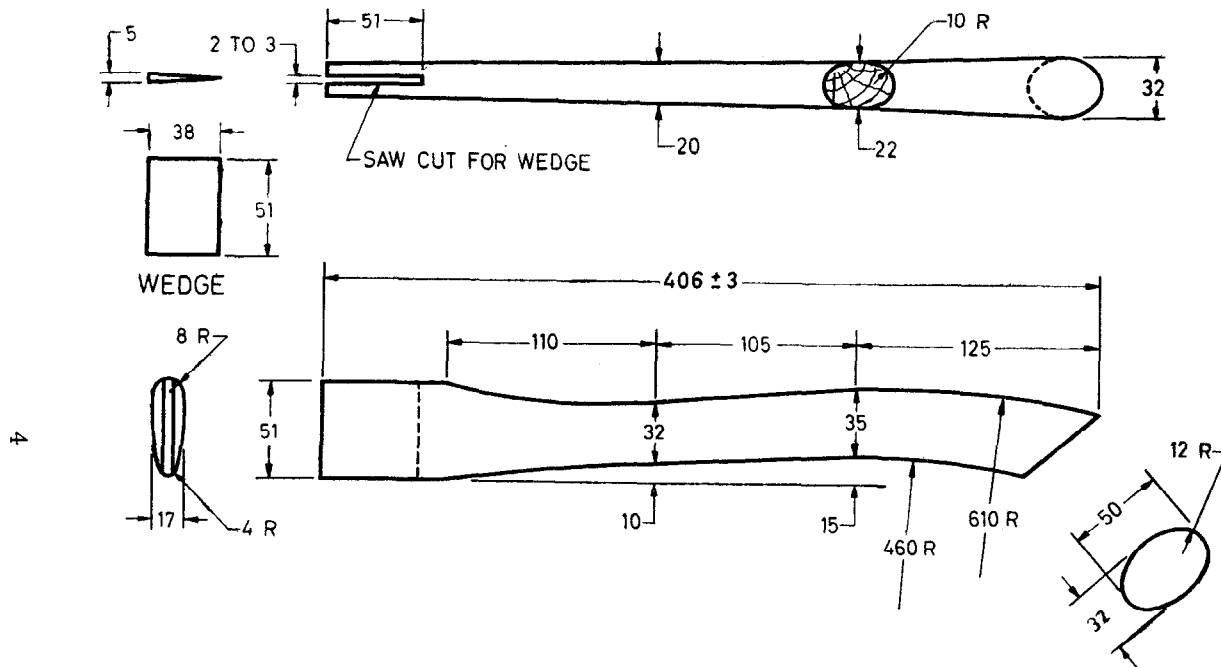
5.2 It is recommended that immediately after manufacture, all the handles be dipped in raw linseed oil at room temperature as this treatment retards changes in the moisture content.

6. DIMENSIONS AND TOLERANCES

6.1 Dimensions — The handles shall conform to the dimensions as shown in Fig. 1 to 3.

*Specification for axes (*revised*).

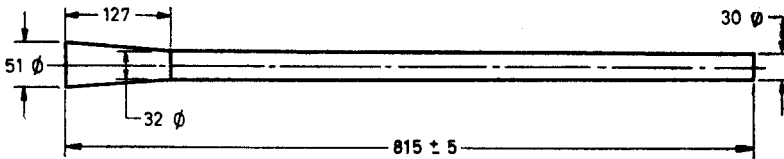
†General requirements for wooden tool handles (*third revision*).



NOTE — Wedge shall be dipped in glue and hammered tight.

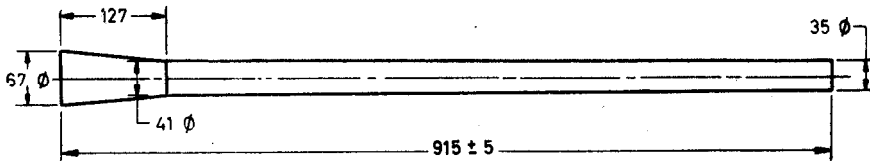
All dimensions in millimetres.

FIG. 1 WOODEN HANDLE FOR AXES, HAND



All dimensions in millimetres.

FIG. 2 WOODEN HANDLE FOR AXES, FELLING, TRADE PATTERN



All dimensions in millimetres.

FIG. 3 WOODEN HANDLE FOR AXES, FELLING, ESTATE PATTERN

6.2 Tolerances — The following tolerances shall be permissible on the diameter of the handles:

- | | |
|-------------------------------------|--------|
| a) Where the head of the tools fits | + 3 mm |
| | — 0 mm |
| b) At other places | ± 2 mm |

7. OTHER REQUIREMENTS

7.1 Workmanship and finish, permissible defects, treatment, and sampling shall be as specified in IS : 620-1975*.

8. TESTS

8.1 In addition to the tests specified in IS : 620-1975*, the following tests shall also be carried out on the finished handles selected in accordance with the sampling procedure given in IS : 620-1975*.

8.2 Drop Test — The handle shall be held horizontally and dropped from a height of 1.25 m on a concrete surface, 10 times continuously.

8.3 Impact Test — The handle shall be fitted with a dummy head of approximately the same weight as that of the tool. It shall then be struck with a reasonable force, on a hardwood surface, 10 times continuously.

*General requirements for wooden tool handles (*third revision*).

8.4 At the end of the tests specified in **8.2** and **8.3**, there shall be no visible damage, chips or cracks at any portion of the handle.

9. SAMPLING

9.1 The method of drawing representative samples of handles and criteria for conformity shall be as prescribed in IS : 620-1975*.

10. MARKING

10.1 Unless otherwise specified, each handle shall be legibly and indelibly marked with the manufacturer's name, initials or recognized trade-mark, if any, name of timber species and the year of manufacture. In addition, the type of the axe for which the handle is required, shall be marked as shown below:

<i>Type</i>	<i>Marking Code</i>
a) Axe, hand	AH
b) Axe, felling	AF
c) Axe, felling, estate pattern	AFEP
d) Axe, felling, trade pattern	AFTP

10.1.1 The handle may also be marked with the ISI Certification Mark.

NOTE — The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI Mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

APPENDIX A

(Clause 4.2)

TREATMENT OF GREEN BLANKS

A-1. For the treatment, the green blanks shall be converted to the sizes as close as possible to the shape and dimensions of the handles (allowing some oversize for shrinkage and final finishing) and immediately immersed in a 40 percent (w/w) solution of polyethylene glycol (PEG)-1500 or 60 percent (w/w) solution of urea for approximately 24 hours.

A-2. The blanks after the treatment as mentioned above shall be air- or kiln-seasoned in the usual manner until the desired moisture content is attained. The finishing of handles shall be done at the end.

*General requirements for wooden tool handles (*third revision*).

INDIAN STANDARDS

ON

TIMBER STORES

IS :

620-1975	General requirements for wooden tool handles (<i>third revision</i>)
2133-1962	Wooden tent pins
2892-1964	Wooden handles for picks and beaters
2893-1964	Wooden handles for adzes
2894-1965	Wooden handles for wood working chisels and gouges
2895-1965	Wooden handles for engineers' files
2896-1965	Wooden handles for carpenters' augers
2897-1965	Wooden handles for shovels
2922-1975	Wooden tent mallets (<i>first revision</i>)
3053-1965	Cane baskets for general purposes
3084-1975	Pencil slats (<i>first revision</i>)
3386-1965	Wooden fence posts
3806-1966	Wooden beaters
4435-1967	Wooden ladders
4650-1968	Anvil blocks
4953-1973	Wooden handles for hand hammers (<i>first revision</i>)
5942-1970	Wooden handles for <i>POWRAHS</i>
6641-1972	Wooden disc for tents
6642-1972	Mason's mallets
6643-1972	Wooden pins for bivouac tents
6644-1972	Tinman's mallets
6656-1972	Caulking mallets
6676-1972	Bossing (plumbers), mallets
6729-1972	Wooden paddles
7344-1975	Bamboo tent poles
7548-1975	Vase for store tent
7549-1975	Timber half wrought for sporting rifles
7550-1975	Cane basket for ration

INDIAN STANDARDS INSTITUTION

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002

Telephone : 27 01 31 (20 lines)

Telegrams : Manaksanstha

Regional Offices:

		Telephone
Western :	Novelty Chambers, Grant Road	BOMBAY 400007 37 97 29
Eastern :	5 Chowringhee Approach	CALCUTTA 700072 23-08 02
Southern :	54 General Patters Road	MADRAS 600002 8 37 81

Branch Offices:

'Pushpak', Nurmohamed Shaikh Marg, Khanpur	AHMEDABAD 380001	2 03 91
'F' Block, Unity Bldg, Narasimharaja Square	BANGALORE 560002	2 76 49
Kothi No. 90, Sector 18A	CHANDIGARH 160018	2 83 20
5-8-56/57 Nampally Station Road	HYDERABAD 500001	4 57 11
117/418 B Sarvodaya Nagar	KANPUR 208005	82 72
B.C.I. Bldg (Third Floor), Gandhi Maidan East	PATNA 800004	2 56 55